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## **API Documentation**

App.js serves as the main entry point for a Node.js application that utilizes the Express framework to provide a RESTful API. This application is connected to a PostgreSQL database and is configured to handle CORS (Cross-Origin Resource Sharing) to allow requests from different origins. It also parses JSON and URL-encoded data from incoming requests. Below is a comprehensive guide to understanding and interacting with this application.

## **Application Setup**

This section describes the various modules and middlewares integrated into the application.

### Modules and Middleware

Module	Purpose
Express:	Framework to build the server and manage routes
Cors:	Middleware to enable CORS
Postgresql:	PostgreSQL client for connecting to PostgreSQL databases
Body-parser:	Middleware to parse JSON and URL-encoded data in requests

```
const express = require('express');
const cors = require('cors');
const bodyParser = require('body-parser');
const app = express();

app.use(cors());
app.use(bodyParser.json());
app.use(bodyParser.urlencoded({ extended: true }));
```

### Database Configuration

The application connects to a PostgreSQL database using the pg module. Database credentials and details are specified directly in the code.

## PostgreSQL Pool Setup

```
const pool = new pg.Pool({
  user: 'skillsculpt',
  host: 'remote', (hiding the actual remote hostname)
  database: 'skillsculpt',
  password: 'password', (hiding the actual password)
  port: 5432,
  ssl: { rejectUnauthorized: false }
});
```

### API Endpoints

#### GET /api/data

Retrieves all entries from the employees table in the database.

Endpoint: **GET** /api/data

Functionality:

- Fetches all employee data.
- Returns data in JSON format.

#### POST /api/newentry

Allows adding a new entry to the employees table.

Endpoint: **POST** /api/newentry

Payload Example:

```
{
  "first_name": "Alex",
  "last_name": "Smith",
  "position": "Developer",
  "id": 123
}
```

Functionality:

- Inserts new employee data into the database.
- Returns a success message upon successful insertion.

## **DELETE /api/delete/:id**

Deletes an employee entry based on the provided ID.

Endpoint: **DELETE**     **/api/delete/:id**

Functionality:

- Deletes the employee with the specified ID.
- Returns a success message upon successful deletion.

## Server Initialization

The server listens on port 3000 and prints a message to the console once it starts successfully.

```
const port = 3000;  
app.listen(port, () => {  
  console.log(`Server is running on port ${port}`);  
});
```

This documentation provides a clear overview of the functionalities provided by the application, including how it interfaces with a PostgreSQL database and handles various API requests.